

Statement 2

September 28, 2016

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See Attachments 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22

I am strongly opposed to the FCC plan to rollout and auction 5G spectrum technology due to the non-thermal biological health effects created by radiofrequency/microwave radiation or electromagnetic fields (EMF) emitted by wireless transmitters. These documented effects are not recognized and not protected by our current FCC safety standards.

3% to 5% of the population is electrohypersensitive (Attachment 12), which means they develop neurological symptoms due to exposure to wireless microwave radiation or EMF, with symptoms being worse the more continuous the exposure, the closer the source and the higher the intensity of radiation. People become electrohypersensitive as their bodies fail to adapt to the cellular or systemic insult from the billions of electromagnetic waves per second that wireless systems transmit. Once someone becomes electrohypersensitive they are usually electrohypersensitive for a lifetime and with additional continuous exposure with 5G we will have more people become ill and disabled due to electrohypersensitivity. In addition to neurological disease thousands of studies have shown that radiofrequency radiation exposure increases cancer, reproductive harm, DNA damage, immune system dysfunction, difficulty with sleep, etc. 5G would make a big additional contribution to an existing public health crisis. Our government should be warning people and educating them about health effects of wireless microwave radiation and how to minimize their exposure and not making the problem worse with new wireless initiative like 5G.

Dr. Andrew Marino, along with 5 other doctors at LSU, completed an important study showing that Electrohypersensitivity does exist. When time was given for symptoms to appear and dissipate, the electrohypersensitive individuals were able to tell when a wireless source was present or not (See LSU study in Attachment 12). The cities of Boston and Philadelphia through their legal departments have officially stated that the safety standard for wireless microwave/radiofrequency radiation is inadequate and people with electrohypersensitivity (EHS) are not being recognized and protected by current FCC safety standards (see Attachment 13, statement to the FCC from cities of Philadelphia and Boston). According to their statement to the FCC wireless initiatives like 5G violate Americans with Disabilities Act rights for people with EHS. Electrohypersensitive people living in the U.S. will lose access to public streets, parks and facilities violating their civil rights. Recently, a teacher in Los Angeles Unified School District was accommodated for her EHS (see Attachment 14) but with 5G's mesh network there will be no way to accommodate people with EHS. They will be driven from their homes, communities and workplaces and there will be more electrohypersensitive people with more exposure. In Massachusetts parents have sued to

protect their child who is electrohypersensitive from the WiFi in their school (see Attachment 15). Now the country will be opening itself up to thousands of lawsuits. In addition to harming electrohypersensitive individuals the Government will be harming the health of all citizens most of which cannot perceive the damage being done to their health like EHS people can. We should be learning from these EHS people that we are exposing our citizens to a harmful agent rather than ignoring their plight.

The U.S. should recognize the need to protect and accommodate people with sensitivity to wireless microwave radiation as currently done by utility agencies across the nation. Many utility companies across the nation offer an opt-out for people planning to receive a wireless smart meter because hundreds of individuals have testified that the wireless microwave radiation from smart meters have made them sick, mostly with neurological symptoms (see attachments 16 and 17 for testimonies). This is important because as with 5G, these wireless smart meters are located near people's homes, emit a low powered wireless microwave radiation signal and 5G transmitters will actually transmit much more frequently than smart meters are claimed to.

Los Angeles City has acknowledged wireless microwave radiation health effects this past year when they exempted Los Angeles fire stations from having cell towers located on top of their buildings as part of the LA-RICS program. LA County Firefighters commissioned a report from Cindy Sage, an expert in radiofrequency radiation health effects, delineating 49 peer reviewed studies showing a variety of health effects at wireless microwave radiation exposure levels expected under the cell towers including cellular and DNA damage, cancer, neurological effects, cardiovascular problems, fatigue, sleep problems, reproductive harm and cellular damage (see attachment 18 Commission Report). We need our Government to afford the rest of the U.S. Citizens the same protection from wireless microwave radiation health effects as they did to the firefighters and say no to 5G. Firefighters were also given an exemption from having cell towers placed on their stations in California state measure AB57 which states, "due to the unique duties and infrastructure requirements for the swift and effective deployment of firefighters this section does not apply to a colocation or siting application for a wireless telecommunications facility where the project is proposed for placement on fire department facilities." (See attachment 19). Of course, these protections are not afforded to other professions who need to be "swift and effective" or children and families living nearby the same cell towers. The National Firefighters Union has a long history of recognizing wireless microwave radiation health effects and has stood strongly against locating cell towers on top of their fire stations for more than 10 years; see Attachment 20, a 28 page International Association of Fire Fighters Resolution detailing health effects associated with exposure to wireless microwave radiation and reported symptoms of their exposed firefighters.

In addition, Los Angeles Unified School District has also acknowledged wireless microwave radiation health effects and passed a resolution for a policy that no cell tower be located within 200 feet of a school. In another resolution passed by LAUSD they recommended "The board supports responsible deployment of fiber optic broadband technology, which is superior to wireless technology in speed, reliability, security,

durability and protection it affords people and the environment from the potential hazards of exposure to radiofrequency radiation..." See Attachments 21 and 22 for the two LAUSD resolutions.

I am strongly opposed to the FCC plan to rollout and auction 5G spectrum technology due to the non-thermal biological health effects created by radiofrequency/microwave radiation or electromagnetic fields (EMF) emitted by wireless transmitters. These documented effects are not recognized and not protected by our current FCC safety standards. MD and PhD experts, in the field of wireless microwave radiation health effects, warn us of the serious harm that microwave technology especially 5G along with its required deployment of multiple transmitters, will cause. We ask that you abort your plan to auction 5G spectrum and immediately halt the rollout of 5G technology testing. We need to immediately institute safety standards that take into account non-thermal biological health effects. The research attached and cited shows that, at the power levels required for this technology to operate reliably over the project's large areas, the radiofrequency/microwave radiation will have significant biological health effects, especially on electrosensitive individuals and children (Cancer, Neurological effects, immune system disorders, reproductive harm and others). **We are asking that you focus instead on installing only fiber optic wired connection to the Internet along with individualized subsidies to help poor people pay for wired/cabled connection to the Internet. Fiber optic wired connections eliminates wireless microwave radiation transmissions thus eliminating wireless microwave radiation health effects. In addition we insist on instituting RF Exposure standards significantly lower than our current thermal standards as recommended and supported by the Bioinitiative Report (Bioinitiative.org/conclusions) of 0.0003 microWatts per centimeter squared.**

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